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[Continued on next page]

(54) Title: MEDIATORS OF HEDGEHOG SIGNALING PATHWAYS, COMPOSITIONS AND USES RELATED THERETO

2-amino-4-methyl

2-bromo-5-methyl 3-bromo-4-methyl 4-bromo-3-methyl 2-bromo-3-methyl

2- hydroxy-6-methyl

(57) Abstract: The present invention makes available methods and reagents for inhibiting aberrant growth states resulting from hedgehog gain-of-function by contacting the cell with a hedgehog antagonist, such as a small molecule, in a sufficient amount to aberrant growth state, e.g., to agonize a normal ptc pathway or antagonize hedgehog activity.



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Int Alonal Application No PCT/US 00/25461

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D239/91 C07D2

A61P35/00

CO7D239/36 A61K7/48 C07D471/04 A61K7/06 C07D401/12

A61K31/505

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 CO7D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	NSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	EP 0 056 637 A (ISHIKAWA) 28 July 1982 (1982-07-28) the whole document	1,29-38		
X	A.RAO ET AL.: "SYNTHESIS AND BIOLOGOCAL ACTIVITIES OF CERTAIN DERIV. OF 3-ARYL-4(3H)-QUINAZOLINONES.II" JOURNAL OF INDIAN CHEM. SOC., vol. 62, no. 3, March 1985 (1985-03), pages 234-7, XP000982337 INDIA page 234 -page 236	31		

X	Further documents are listed in the	continuation of box C.
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Patent family members are listed in annex.

- Special categories of cited documents :
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Date of mailing of the international search report

& document member of the same patent family

Date of the actual completion of the international search

14 May 2001

European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 28/05/2001

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		FC1703 00/23401			
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Category *	Citation of document, with indication, where appropriate, or the reasont passages		THEOREM TO GLOBIT ITO.		
(BUDDHA DEO SINGH: "4-QUINAZOLONES.II" JOUR. INDIAN CHEM. SOC., vol. 46, no. 1, January 1969 (1969-01), pages 21-25, XP000982340 INDIA page 23 -page 24		31		
X	CHEMICAL ABSTRACTS, vol. 96, no. 28, 1982 Columbus, Ohio, US; abstract no. 142790p, TIWARI,S.: "POSSIBLE ANTIFERTILITY COMPOUNDS-PART III:SYNTHESIS OF 2-HIPPURYL-3-ARYLQUINAZOLINONES." page 753; column 2; XP002166722 abstract & J. CHEM. SOC. PAK., vol. 3, no. 4, 1981, pages 215-7,		29,30		
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1 to 4 and 29 (partially)

Present claims 1 to 4 and 29 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds:quinazolin-4-ones, pyridopyrimidinones and pyrimidinones (a.o.no. 27) as rl value in formulas I,II, their preparation and their pharmaceutical use.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Information on patent family members

Im Atlantal Application No PCT/US 00/25461

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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